

Technical Bulletin

Issue Date : January 10, 2000

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UL Construction #161

R-Panel

UL580 Class 90 Wind Uplift

1. **Metal Roof Deck Panels*** - No. 26 MSG min gauge coated steel. Panels continuous over two or more spans. End laps to occur over purlins with panels overlapped a min of 4 in. with lap centered over purlin web. A line of sealant may be used at panel side and end laps.

Tremco Incorporated. "R-Panel"

2. **Panel Fasteners** – For panel to panel and panel to purlin connections to be No. 12-14 by 1 in. self drilling, self-tapping, hex head, plated steel screws with a 5/8 in. OD formed steel washer and a neoprene sealing washer.
As alternate fasteners – for panel to purlin connections, ¼ -14 HHAB self-tapping plated steel screws, with a separate 5/8 in. OD dome shaped steel washer and a neoprene sealing washer may be used.

Spacing, for panel to purlin connections to be 12 in. on center beginning 2-½ in. from centerline on one side of each major rib.
Spacing at end lap to be in a 5/7/5/7-in. pattern beginning 2-½ in. from the centerline on both sides of each major rib.
Fastener for panel to purlin connection to be 1 ¼ in. long when insulation (Item 3) is greater than 4 ½ in.

3. **Insulation** – (Optional) – Any compressible blanket insulation 6 in. max. thickness before compression.
4. **Purlin** – No. 16 MSG min gauge steel (50,000 psi min yield).
5. **Lateral Bracing** – (Not shown) – As required.

Refer to General Information, Roof Deck Construction, (Roofing Materials and Systems Directory) for items not evaluated.

*Bearing the UL Classification Marking

